

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SG2004/000202

A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. ⁷ : A61B 6/03; G06F 17/00; G06F 19/00 According to International Patent Classification (IPC) or to both national classification and IPC												
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI : IPC A61B 6/-, G06F 17/00, 19/00, G01R 33/20 and keywords: (mri, segmentation, ventricle, midline, histogram) and similar words IEEE and keywords: (third ventricle, midline, mri, brain) ESP@CB and keywords: (third ventricle, midline, mri, brain)												
C. DOCUMENTS CONSIDERED TO BE RELEVANT												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
A	Barra et al., <i>"Automatic Segmentation Of Subcortical Brain Structures In MR Images Using Information Fusion"</i> , IEEE Transactions On Medical Imaging, Vol. 20, No. 7, July 2001, pp. 549 - 558											
A	Fannon et al., <i>"Third Ventricle Enlargement And Developmental Delay In First Episode Psychosis: Preliminary Findings"</i> , British Journal Of Psychiatry, Vol. 177, (2000), pp. 354 - 359											
A	Cohen et al., <i>"Automatic Matching Of Homologous Histological Sections"</i> , IEEE Transactions On Biomedical Engineering, Vol. 45, No. 5, May 1998, pp.642 - 649											
A	Atkins et al., <i>"Fully Automatic Segmentation Of The Brain In MRI"</i> , IEEE Transactions On Medical Imaging, Vol. 17, No. 1, February 1998, pp. 98 - 107											
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex												
* Special categories of cited documents: <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention											
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone											
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art											
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search 28 July 2004		Date of mailing of the international search report - 4 AUG 2004										
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer AMOD PRADHAN Telephone No : (02) 6283 2510										

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6240308 B1 (HARDY et al.) 29 May 2001 The Entire Document	
A	US 5262945 A (DeCarli et al.) 16 November 1993 The Entire Document	
P,A	US 6591004 B1 (VanEssen et al.) 8 July 2003 The Entire Document	

Information on patent family members

PCT/SG2004/000202

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
US	6240308	AU	21631/92	CA	2079094	SE	9003441
		US	5099846	US	5143076	US	5176689
		US	5205689	US	5339812	US	5354314
		US	5398684	WO	1991/14397	WO	1991/18522
		WO	1992/22243				
US	5262945		NONE				
US	6591004	AU	61479/99	CA	2344886	EP	1145195
		WO	2000/17821				

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX